



National Biological Information Infrastructure

National Biological Information Infrastructure (NBII):

Collaborative Opportunities in Ecoinformatics



June 3rd , 2004



National Biological Information Infrastructure

Topics...

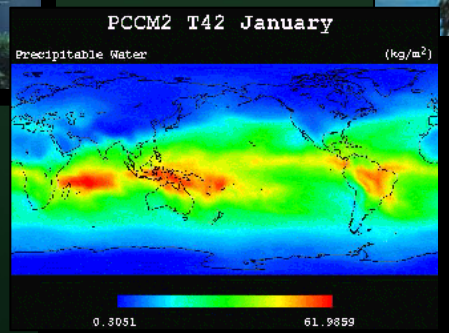
- Background on NBII Program
- USGS NBII/EPA Collaborations
- NBII Tools & Services
- Questions & Answers



National Biological Information Infrastructure

NBII: What is it?

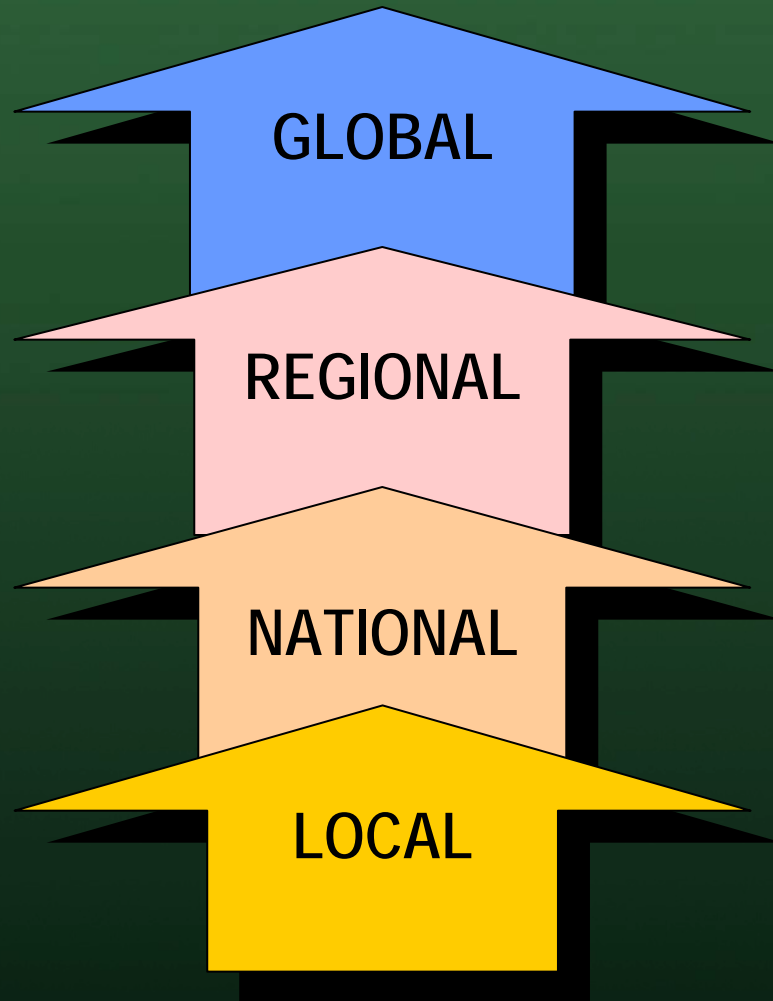
- A broad, collaborative program to provide access to data and information on our Nation's biological resources.





National Biological Information Infrastructure

NBII & International Activities relationships



CBD Clearinghouse Mechanism (CHM)

Global Biodiversity Information Facility (GBIF)

Global Earth Observation (GEO)

Inter-American Biodiversity Information Network (IABIN)

North American Biodiversity Information Network (NABIN)






NBII (US) CBIN (Canada) REMIB (Mexico) ERIN (Australia)

**GAP Biodiversity Information
State Natural Heritage Programs
County Information**

- Ecoinformatics Working Group
- Metadata standards promotion, propagation
- Integrated Taxonomic Information System (ITIS)
- Interagency Biotechnology efforts
- BioEco Interagency Group
- EMAP Partnership meeting
- GEO
- EPA Representative on NBII Science Advisory Committee
- Biodiversity & Ecosystems Grants & Workshop

HOME PAGE | US BIOTECHNOLOGY WEB | COLLABORATION AREA | REMOTE VIEWER REQUEST

Biotechnology Web Site

NBII Home

Welcome

Frequently Asked Questions

Database


Roles of US Agencies

Laws and Regulations

Government Contacts

Additional Sites

Admin Log In



US Biotechnology Regulations

United States Regulatory Oversight of the Products of Modern Biotechnology

ECOinformatics Initiative

The cooperation on ecoinformatics has been established to exchange information and carry out common projects in the area of environmental information

[About] [Objectives] [Shared documents] [Main] [EFA Website]

Calendar

Calendar of events

June 2004

| Mon | Tue | Wed | Thu | Fri | Sat | Sun |
|-----|-----|-----|-----|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | | | | |

Meeting library


Latest:

(please also see shared document session for documentation)

NEW ECOTERM April 2004 terminology workshop - material available

Partners

EFA



Public Bulletin Board

ENTER

NATIONAL SCIENCE FOUNDATION


4201 Wilson Boulevard
Arlington, VA 22230

Dear Colleague,

This letter calls to your attention a new research opportunity in **BIODIVERSITY AND ECOSYSTEM INFORMATICS (BDEI)**. This opportunity seeks to support proposals for high-risk, small-scale planning (less than \$50,000) or incubation (less than \$100,000) activities that will likely catalyze rapid and innovative advances in the new interdisciplinary research community of biodiversity and ecosystem informatics. Subject to the availability of funds, about \$1.05 Million is available from NSF. Both BDEIS and NASA may provide additional funding depending on availability of funds and quantity/quality of proposals. 15-20 awards are anticipated. This is a call for incubation/planning research or workshop proposals to be conducted as part of the existing Digital Government research program (see <http://www.nsf.gov/cpi-bin/getpub?nsf99103>) within the Division of Experimental and Integrative Activities (EIA) of the NSF Directorate for Computer and Information Science and Engineering (CISE). Collaborating agencies and NSF programs for this opportunity:

- National
 - Digital
 - Informa
 - Biologi
 - Science
 - Biologi
 - National
 - United

Grants made u



ITIS Integrated Taxonomic Information System

Members to ITIS are integrated Taxonomic Information Systems where you can find authoritative taxonomic information on plants, animals, fungi, and microbes of North America and the world. This is a public domain, free of charge, service. For more information, visit www.itis.gov or contact us at itis@ncsu.edu.

Web site: www.itis.gov

[Go Home to ITIS](#)
[Contact Home](#)
[Database Home](#)
[Help Home](#)



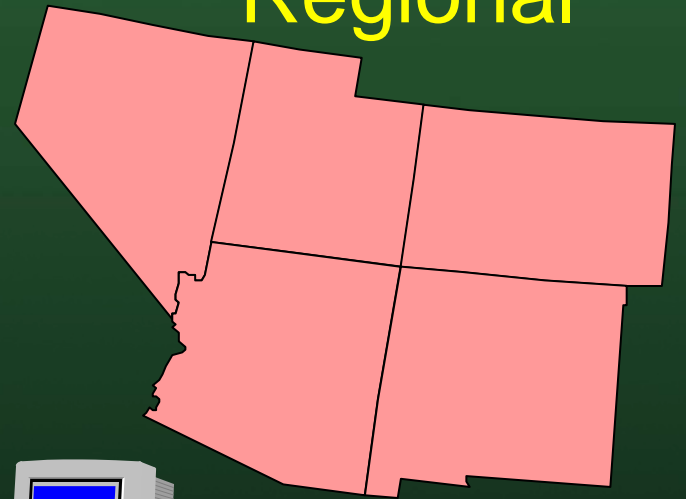
National Biological Information Infrastructure

NBII Nodes: Producing products, standards, tools, and services for biodiversity data management & delivery.

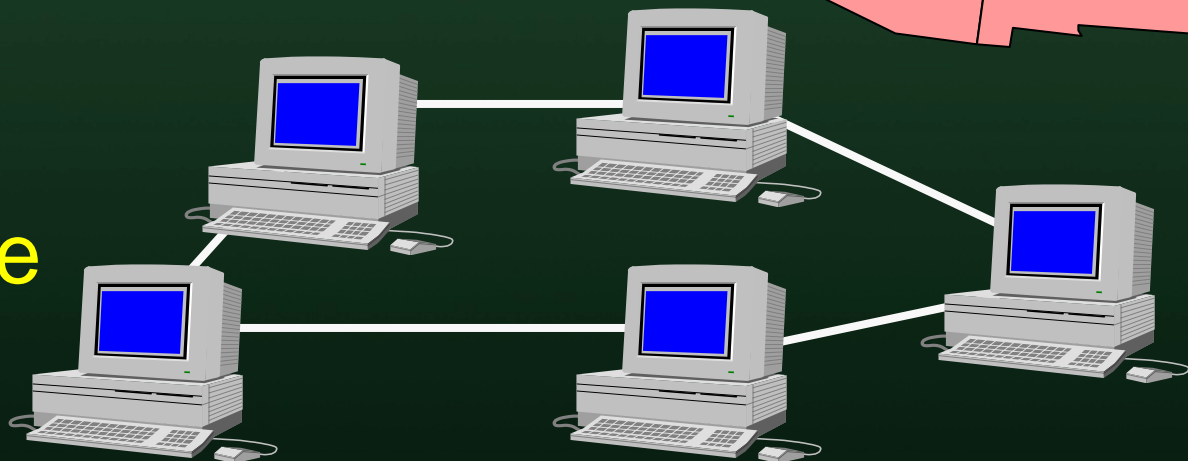
*** Thematic**



*** Regional**



*** Infrastructure**





National Biological Information Infrastructure

NBII Public Site – <http://www.nbii.gov>

NBII Home

The NBII: Your Home for Biological Information on the Web

About NBII

Current Biological Issues

Biological Disciplines

Geographic Perspectives

Teacher Resources

Data & Information Resources

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Teacher Resources

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• The NBII facilitated development of the [United States Regulatory Agencies Unified Biotechnology Website](#), a publicly available resource that focuses on the agricultural products of modern biotechnology. The highlight is a searchable database which covers genetically engineered crop plants intended for food or feed that have completed all recommended or required reviews for food, feed or planting use in the United States. This project was developed under the auspices of the U.S. Department of Agriculture, Animal and Plant Health Inspection Service (APHIS), the U.S. Environmental Protection Agency (EPA), and the U.S. Food and Drug Administration (FDA), which share oversight of the agricultural modern biotechnology.

• Is it feasible to balance profits from land development with

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Conferences

BioComplexity Thesaurus

Expertise Databases

Metadata

Museums & Collections

Online References & Journals

Organizations & Associations

Tools

Towards Best Practices

• The NBII facilitated development of the [United States Regulatory Agencies Unified Biotechnology Website](#), a publicly available resource that focuses on the agricultural products of modern biotechnology. The highlight is a searchable database which covers genetically engineered crop plants intended for food or feed that have completed all recommended or required reviews for food, feed or planting use in the United States. This project was developed under the auspices of the U.S. Department of Agriculture, Animal and Plant Health Inspection Service (APHIS), the U.S. Environmental Protection Agency (EPA), and the U.S. Food and Drug Administration (FDA), which share oversight of the agricultural modern biotechnology.

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Aquatic Biology

Biodiversity & Environment

Birds

Botany

Insects, Arachnids & Annelids

Mammals

Microbes

Reptiles & Amphibians

• The NBII facilitated development of the [United States Regulatory Agencies Unified Biotechnology Website](#), a publicly available resource that focuses on the agricultural products of modern biotechnology. The highlight is a searchable database which covers genetically engineered crop plants intended for food or feed that have completed all recommended or required reviews for food, feed or planting use in the United States. This project was developed under the auspices of the U.S. Department of Agriculture, Animal and Plant Health Inspection Service (APHIS), the U.S. Environmental Protection Agency (EPA), and the U.S. Food and Drug Administration (FDA), which share oversight of the agricultural modern biotechnology.

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Taxonomic Resources and Expertise Directory (TRED)

esa **NBII** National Biological Information Infrastructure

Partners Presentations Program News Publications

Ecological Information Network (EIN)

The EIN is a joint project of the Ecological Society of America and

NBII National Biological Information Infrastructure

The Taxonomic Resources and Expertise Directory (TRED)

• This directory provides information on taxonomic resources and expertise available to the scientific community.

There are two categories of resources:

1. Select general providers
2. Select taxonomic categories

A. B. C.

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Directory of Research Systematics Collections (DRSC)

[Click here to search the DRSC Database.](#)

The **Directory of Research Systematics Collections (DRSC)** is a directory of the natural history research collections. This directory is developed and maintained through a partnership between the [Natural Science Collections Alliance](#) and the [U.S.G.S. Biological Resources Division \(BRD\)](#) and was developed in part to support the [National Biological Information Infrastructure \(NBII\)](#) and the [Electronic Natural History Museum Initiative](#) of the BRD.

The **DRSC Database** currently contains information submitted by 537 natural history research collections.

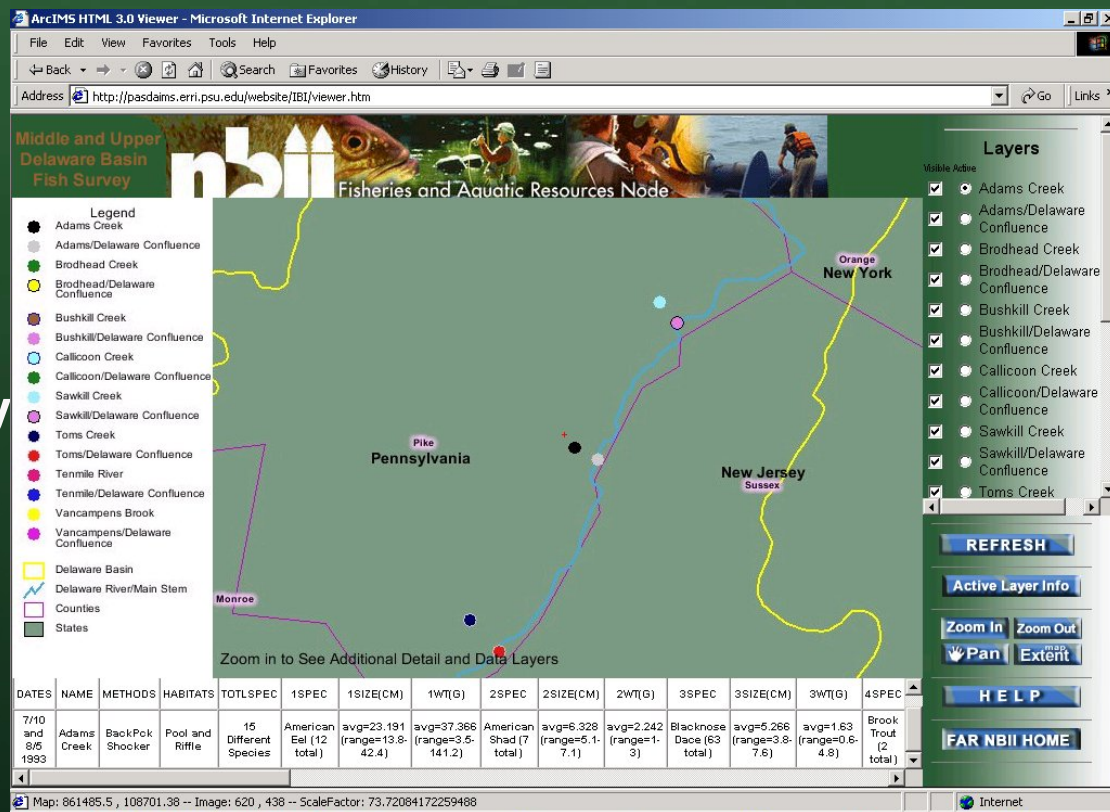
Comments or questions about the DRSC: [Association of Systematics Collections](#)



National Biological Information Infrastructure

Sample NBII Node Products - Fisheries

Fishing Resources By State
Fishing Conditions By State
National Fish Strain Registry
PA Fisheries Explorer
Delaware River Mapping



| DATES | NAME | METHODS | HABITATS | TOTLSPEC | 1SPEC | 1SIZE(CM) | 1WT(G) | 2SPEC | 2SIZE(CM) | 2WT(G) | 3SPEC | 3SIZE(CM) | 3WT(G) | 4SPEC |
|-------------------|-------------|-----------------|-----------------|----------------------|-------------------------|------------------------------|------------------------------|-------------------------|---------------------------|-----------------------|---------------------------|---------------------------|--------------------------|-----------------------|
| 7/10 and 8/5 1993 | Adams Creek | BackPck Shocker | Pool and Riffle | 15 Different Species | American Eel (12 total) | avg=23.191 (range=13.8-42.4) | avg=37.366 (range=3.5-141.2) | American Shad (7 total) | avg=6.328 (range=5.1-7.1) | avg=2.242 (range=1-3) | Blacknose Dace (63 total) | avg=5.266 (range=3.8-7.6) | avg=1.63 (range=0.6-4.8) | Brook Trout (2 total) |



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Bird Conservation Node

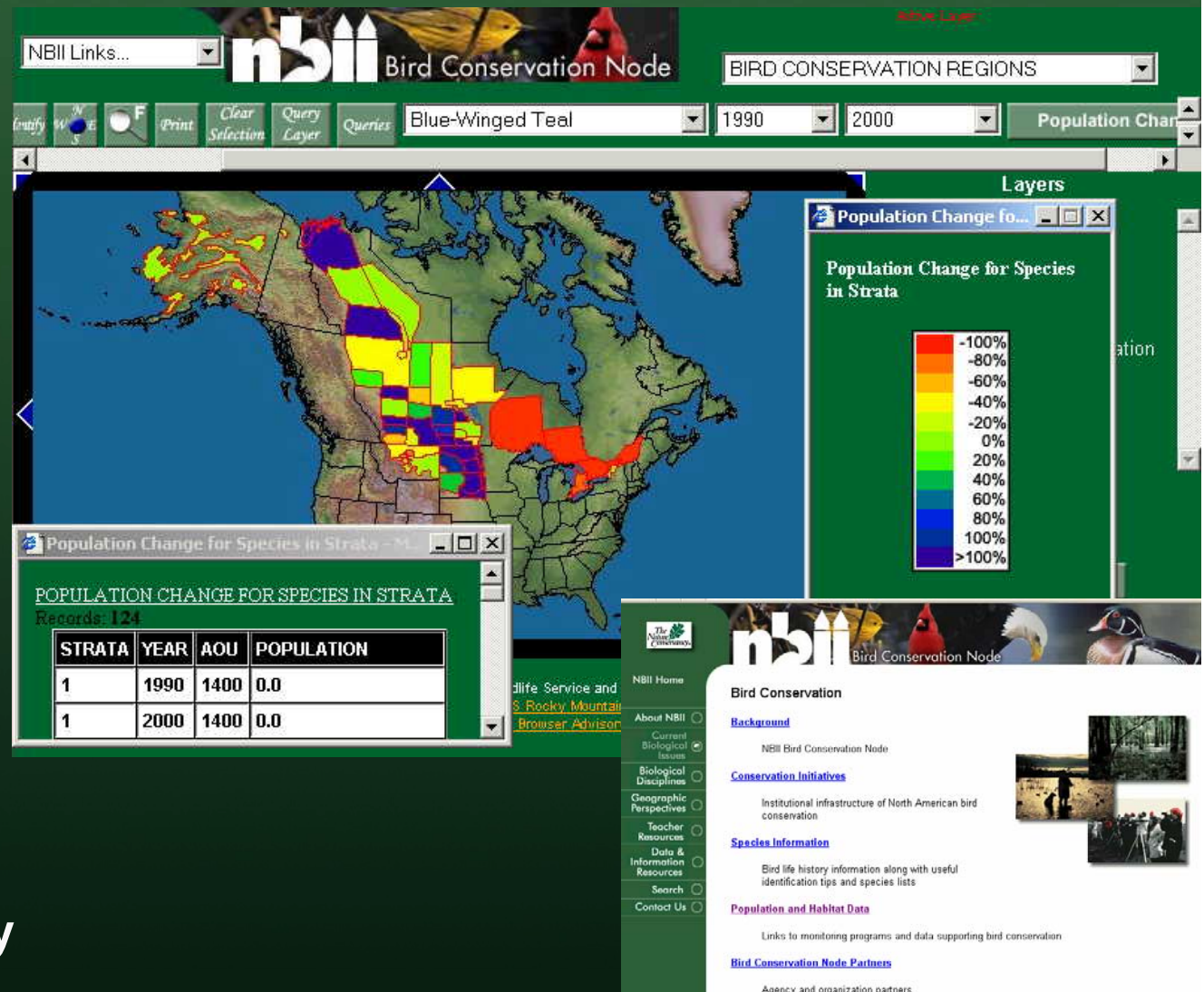
<http://birdcon.nbii.gov>

Key Partners:

- USGS
- Partners in flight
- FWS
- ABI
- State Agencies
- Mexico

Topics:

- Migratory Birds:
 - Population data
 - Habitat data
 - Data integration
 - WEB based query





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Pacific Basin Node

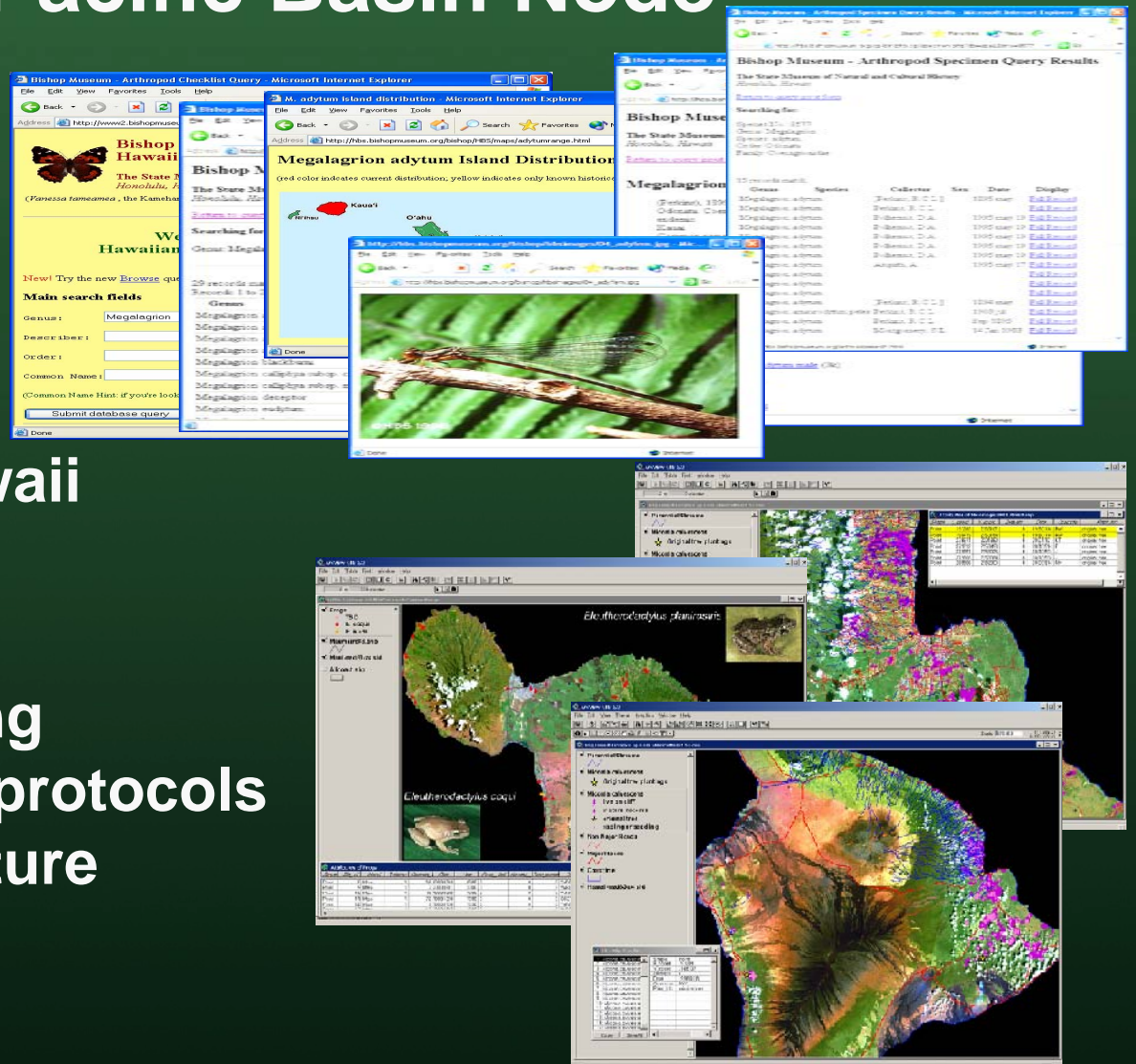
CONTENT IS CRITICAL

What it is:

- ITIS Pacific
- HBS/PBS
- All Species Hawaii

Where it is:

- Metadata training
- Data collection protocols
- Database Structure





National Biological Information Infrastructure

NBII Metadata Activities



Metadata Clearinghouse

Search Summary

[Return to Search](#)

For successful searches click on the database name to get the corresponding results

Elapsed Search Time (MM:SS): 0:07

Database

Status

Count

[NBII Metadata Clearinghouse Principal Node](#)

[EMAN Data Set Library \(Environment Canada S](#)

[Forest Aquatic and Rangeland Ecosystems in th](#)

[National Gap Analysis Program Metadata Node](#)

[New Mexico Resource Geographic Information S](#)

[New Mexico USGS Partnership Clearinghouse](#)

[ONRC Clearinghouse for the Olympic Peninsula](#)

[Southwest Region Road Map of Natural Resourc](#)

[Washington State Geospatial Clearinghouse No](#)

1. **Data Set Title:** [Nonindigenous Plants' Database: Army Lands Inventory](#)

Abstract:

The Army Environmental Center (AEC) gave the Waterways Experiment Station (WES) the task of developing a database covering noxious and nuisance plants because there is no central database on nonindigenous plant species on Army installations. There are a few databases that exist that identify the composition of vegetation at some military installations; however, these systems were developed to account for threatened and endangered species or for management of lands that have been disturbed during training operations.

2. **Data Set Title:** [Development of an Inventory, Monitoring, and Research Database for Reptiles](#)

Abstract:

In support of the conservation goals of Partners in Amphibian and Reptile Conservation (PARC), a database of amphibian and reptile research efforts on Department of the Interior (DOI) lands is being developed. The database will consolidate information from inventory and monitoring projects from across the United States.

NBII HOME Metadata Clearinghouse

KEYWORDS SPATIAL TEMPORAL FORMATS SOURCES

Search In: FullText Search For: "Department of Defense" Connector: AND

FullText

HELP CLEAR PAGE

Query being built: Full Text = Department of Defense

SEARCH CLEAR ALL



Metadata Clearinghouse

Current Database: **NBII Metadata Clearinghouse Principal Node**

Viewing documents 1-2 out of 2

Results Page: [Prev](#) 1 [Next](#)

QUERY:

Full Text = Department of Defense



National Biological Information Infrastructure

Standard for Web Resources Cataloguing

NBII Metadata Standard for Web
Resources Cataloguing

Standard Developed by:

NBII Program Office

And

Bird Conservation Node
California Information Node
Central Southwest/Gulf Coast Information Node
Fisheries & Aquatic Resources Node
Pacific Basin Information Node
Pacific Northwest Information Node
Southern Appalachian Information Node

- ❖ Based upon the Dublin Core Metadata Initiative, with modifications for the biological community
- ❖ NBII-wide standard, developed by a joint working group
- ❖ Documentation available to all NBII Nodes
- ❖ Create once, use many
- ❖ Improves Interoperability



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NBII Web Resources Tool

nbii National Biological Information Infrastructure

Resource ID Bibliographic Keywords Type & Format Temporal Geographic Geographic

* Resource Identifier: [Help](#)

http://w

nbii National Biological Information Infrastructure

Resource ID Bibliographic Keywords Type & Format Temporal Geographic Geographic

* Resource Type: (to select multiple entries, press CTRL as you click) [Help](#)

Bibliographies
Case Studies
Checklists
Data Sets and Statistics

* Resource Format: (to select multiple entries, press CTRL as you click) [Help](#)

URL
WAV
WKS
WPD

* Catalog

* Node

* Language: (to select multiple entries, press CTRL as you click) [Help](#)

English
(Afan) Oromo
Abkhazian

Source: [Help](#) Relation: [Help](#)

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Resource ID Bibliographic Keywords Type & Format Temporal Geographic Geographic

* Title: [Help](#)

Audubon Christmas Bird Count

* Creator(s): [Help](#)

National Audubon Society

Contributor(s): [Help](#)

* Publisher: [Help](#)

National Audubon Society

* Description: [Help](#)

An annual, all-day census of populations across the American National Audubon Society at Ornithology. Users can view individual species. Historical available.

3. *Herscovide et al., Demographic Trends After Exposure to the Herbicide Alachlor at Low Doses in the*
Relevant Dates
Resource Identifier: <http://www.pnas.org/cgi/lookup/9905475.pdf>
Cataloging Node: NBI Program Office
Creator: Tyrone B. Hayes, Jeff Collins, Melissa Lee, Magdalena Mendoza, Nigel Nwaga, A. Ali Stuart, Aaron York
Subject: amphibians, population decline, population status, endocrine disruptors, Alachlor, hermaphrodites, contaminants, herbicides, toxicology, ecotoxicology
Scientific Name(s): *Xenopus laevis*
Common Name(s): African clawed frog
Description: This paper discusses research to examine the effects of Alachlor, the most commonly used herbicide in the U.S., on sexual development in African clawed frogs. The authors hypothesize that Alachlor induces a conversion of testosterone to estrogen in male frogs, impairing sexual development, and contributing to global amphibian population declines.
Publisher: National Academy of Sciences
Date Published: 2002-04-16
Resource Type: Case Studies, Publications
Resource Format: PDF
Language: English
Rights: Copyright held by Publisher

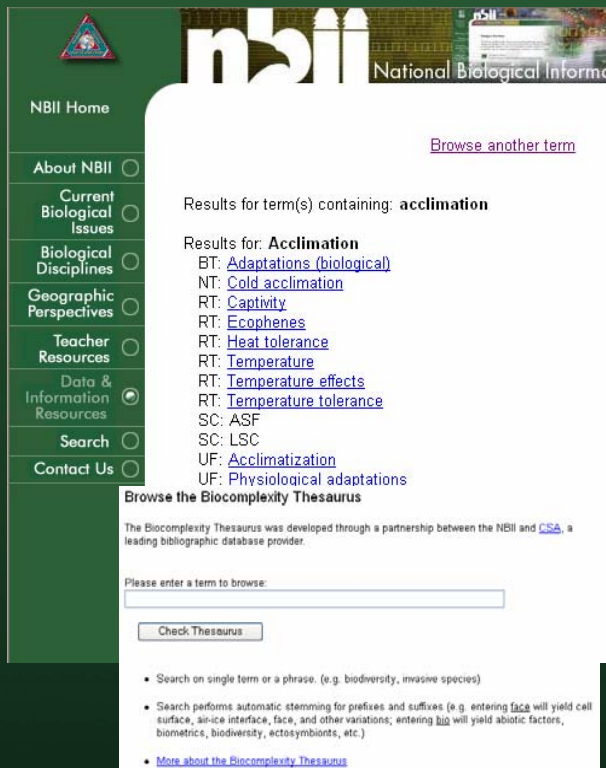
4. *Partners in Amphibian and Reptile Conservation (PARC)*
Resource Identifier: <http://www.parcintl.org/>
Cataloging Node: NBI Program Office
Creator: Partners in Amphibian and Reptile Conservation (PARC)
Subject: amphibians, conservation, environmental education, ecosystem management, resource management, population status, public policy, monitoring, surveys, reptiles, climatic change, habitat, habitat fragmentation, malformations, contaminants, pollutants, animal diseases, zoonoses, parasitic diseases, invasive species, herpetofauna
Uncontrolled Keyword(s): climate change, global change
Description: PARC provides sound conservation and management of reptiles and amphibians in the U.S. through partnerships that focus on educating the public about the importance of these species. They offer classroom materials, curriculum ideas, and monitoring programs that use trained volunteers to collect data on the status and trends of local amphibian populations, for use in establishing conservation guidelines.
Publisher: Partners in Amphibian and Reptile Conservation (PARC)
Resource Type: Organizations and Agencies
Resource Format: URL
Language: English
Biogeographic: Northern Hemisphere
Continent: North America
Country: United States
Rights: Copyright held by Publisher

5. *Reptile and Amphibian Toxicology Literature*
Resource Identifier: http://www.ceris-sc.gc.ca/ceris-central/about_e.cfm
Cataloging Node: NBI Program Office
Creator: Environment Canada, Wildlife Toxicology Division
Subject: amphibians, contaminants, ecotoxicology, toxicology, population status, population decline
Description: The RATL database allows searches of the worldwide (but mostly English language) literature concerning reptile and amphibian ecotoxicology. It contains data extracted from the primary literature for amphibian and reptile ecotoxicology studies published up to and including 1997. Many citations from 1998 have had their data entered and some data for 1999 are also included. Approximately 2000 records are in the current



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NBII Biocomplexity Thesaurus



❖ Needed a common language to characterize these resources

❖ Partnered with CSA, a leading bibliographic database provider

❖ Integrated existing thesauri

❖ Searchable

❖ “web-service” for usage by community

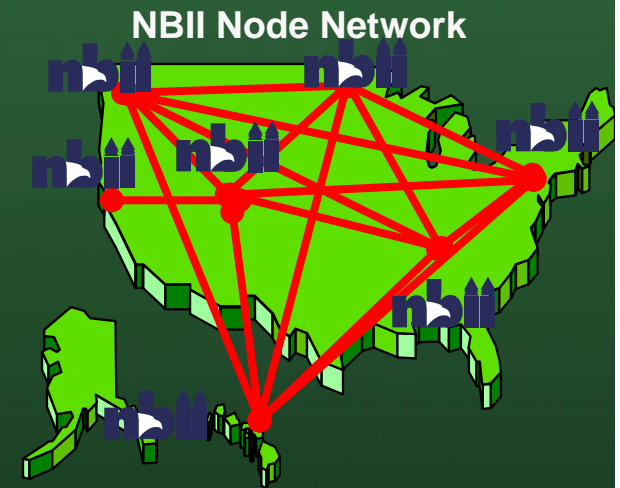


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My.nbii.gov vision...

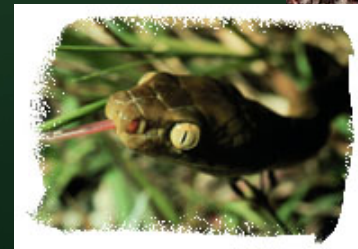
✓ Support Remote offices & NBII Network:

- Network Operations
- Partner “Intranet”
- Information Sharing/Collaboration
- Leveraging of resources
- Private information



✓ Enable Research:

- Scientific Collaboration
- Integration of data
- Peer review
- Data analysis



✓ Public delivery of information:



Typical My.nbii.gov - My Page

[illegible]



National Biological Information Infrastructure

NBII GIS Activities Summary

Sharing

Community Folders

- Developer Tools
 - NBII's Online OGC Multiserver Map Viewer
 - US Atlas OGIS Technical Information Sheet
 - CSWGCIN Customized ArcIMS HTML Viewer Template v. 1.1
- Geospatial News
 - Geo InSight International, Inc. to enhance the access and use of the Bureau of Land Management's (BLM) aerial...
 - Merrick & Company is pleased to be selected to perform map modernization of all Flood Insurance Rate Maps (FIRMs) in the City and County of...
 - Raytheon Company (NYSE: RTN) has signed an agreement with IONIC (www.ionicenterprise.com) under its NASA Synergy IV contract to extend the IONIC OpenGIS Web Coverage Service to support HDF-EOS.
- Geospatial Workshops
 - Connecting the NBII Nodes: Map Services Registry to Support Data Discovery and Interoperability thru OGIS Donna P...
 - Project Manager NBII Program 2003 Topics
- Standards and Guidance
 - Geospatial Peer Review Report (updated)
 - NBII Geospatial Look and Feel Analysis Document
 - NBII Geospatial Standards: Map Services

Community Announcements

Click on the <u>Peer above to participate in the G Process...

Feedback due by June 30th..
Posted by Donna Roy on 6/10/03 10:52

Geospatial Working Group Review of web sites by Mar 2

1. Identify Sites for Review,
2. Prepare Review Tasks and
3. Define Criteria for Reviewer, by Apr 30

Posted by Donna Roy on 3/20/03 12:18 PM in project General Geospatial

NBII Peer Review Scenarios Search

Search by Application Title

Search by NBII Node

Search

NBII Geospatial Peer Review Feedback Form

New Record Export To Excel

| Records | Useability Index | Modified On |
|--|------------------|--------------------|
| PA Fisheries Explorer | 4 | 7/14/2003 1:11 PM |
| PNW Forest & Fire Information Mapping Application | 6 | 7/14/2003 1:12 PM |
| Devil Towers National Monument Site | 8 | 6/11/2003 1:47 PM |
| Breeding Bird Atlas for DC and MD | 7 | 7/14/2003 1:13 PM |
| Oahu Invasive Species Maps | 7 | 7/14/2003 1:32 PM |
| Tennessee River Gorge and Chattanooga | 8 | 6/12/2003 5:56 PM |
| Devil Towers National Monument Site | 6 | 6/13/2003 7:46 AM |
| Middle and Upper Delaware Basin Fish Survey | 5 | 6/13/2003 8:04 AM |
| Climate Station Data of the Northern Rocky Mountains | 9 | 6/13/2003 8:29 AM |
| PA Fisheries Explorer | 9 | 7/14/2003 1:31 PM |
| Middle and Upper Delaware Basin Fish Survey | 5 | 7/14/2003 1:31 PM |
| PNW Forest & Fire Information Mapping Application | 8 | 7/14/2003 1:33 PM |
| OGC Multiviewer | 5 | 6/18/2003 10:55 AM |
| Interactive Mapper | 3 | 6/18/2003 10:56 AM |
| Bird Monitoring Surveys | 5 | 6/19/2003 2:15 PM |
| Bird Atlas for DC and MD | 7 | 7/14/2003 1:15 PM |
| OGC Multiviewer | 7 | 7/14/2003 1:17 PM |
| Southwest Interactive Mapper | 3 | 6/20/2003 10:52 AM |
| Bird Monitoring Surveys | 7 | 7/14/2003 1:17 PM |
| Global Mapper | 7 | 7/14/2003 1:35 PM |
| Climate Station Data of the Northern Rocky Mountains | 9 | 6/25/2003 10:18 AM |
| Oahu Invasive Species Maps | 8 | 6/25/2003 3:51 PM |
| Southwest Interactive Mapper | 4 | 6/25/2003 5:01 PM |
| Global Mapper | 4 | 6/26/2003 9:33 AM |
| Middle and Upper Delaware Basin Fish Survey | 8 | 7/14/2003 1:36 PM |

Community Tasks

| Task | Project | Status | Due Date |
|---|--------------------|--------|----------|
| Draft Geospatial Standards for Interoperability | General Geospatial | 50% | 4/15/03 |
| Integrate Open Viewer into NBII Clearinghouse/Map | | | |

Applications

Standards



National Biological Information Infrastructure

My.nbii.gov Community - BioSafety

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Community Links

[AGBIOS GM Database](#)
[Pilot Phase of BCH](#)
[Toolkit for the BCH](#)
[US Biotechnology Regulations Site](#)

US Biotechnology Community Folders

[Source Documents](#)
[NBII Resources](#)
[Agency Web Sites](#)

Learn About the NBII Portal

[What is the NBII Portal?](#)
[How do I Customize My Pages?](#)

Contact Your Community Manager

Please enter your e-mail address:

*required if you need a response.
Please enter your name:

Community Whiteboard

Welcome!

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BioTechRea Web Site



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Community Discussion Messages

View: Mode:

| Topic | Replies | Last Post |
|--|---------|-----------|
| Development of US Site : Final Edits to BCH Dat... : Some records that need to be corrected, | 3 | 3/21/03 |
| Development of US Site : Final Edits to BCH Dat... : No agency data... tell me | 2 | 3/21/03 |
| Development of US Site : Final Edits to BCH Dat... : re: Changes to Rec Number 108 and 109 | 0 | 3/21/03 |
| Development of US Site : Remote Review Process : Remote Review Process | 1 | 3/21/03 |
| Development of US Site : Other Discussion Items : U.S. Regulatory Status | 21 | 3/21/03 |
| Development of US Site : Final Edits to BCH Dat... : Changes to Rec Number 37 | 1 | 3/14/03 |
| Development of US Site : Final Edits to BCH Dat... : Completion of record number 65 | 1 | 3/14/03 |
| Development of US Site : Final Edits to BCH Dat... : Changes to Rec Number 60 | 2 | 3/14/03 |
| Development of US Site : Final Edits to BCH Dat... : Changes to Rec Number 6 | 5 | 3/14/03 |
| Development of US Site : Final Edits to BCH Dat... : Changes to Rec Number 50 | 13 | 3/14/03 |

Community Documents

Upload File

Summary view: 10 most recent documents from selected projects

| File | Project | Last Checked In | Checked In By | |
|-----------------------------------|--|-----------------|---------------|--|
| bchsplit_0314.xls | Development of US Site | 3/14/03 | Donna Roy | |
| BCH_Split_Data_0226.xls | Development of US Site | 3/3/03 | Donna Roy | |
| Web Site Testing Nominees.doc | Development of US Site | 2/27/03 | Donna Roy | |
| Feb 7 testing results.doc | Development of US Site | 2/27/03 | Donna Roy | |
| Controlled Vocabulary Entries.wpd | Development of US Site | 12/19/02 | Donna Roy | |
| Controlled Vocabulary.xls | Development of US Site | 12/16/02 | Donna Roy | |
| EPA Product Table Changes.wpd | Development of US Site | 12/12/02 | Donna Roy | |

United

Welcome

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National Biological Information Infrastructure

NBII Open Mapping Application

About NBII


Current Biological Issues

Biological Disciplines

Geographic Perspectives

Teacher Resources

Data & Information Resources



National Biological Information Infrastructure

N

W

E

S

Zoom By 50%

Capabilities URL

Quick Add

Clicking on map will: ☒ Zoom in ☐ Zoom out ☐ Re-center ☐ Show features



Map Layers

Update Map

OGC layer

| visible | active | name | action |
|-------------------------------------|--------|-------------------|--------|
| <input checked="" type="checkbox"/> | | WSI Shaded Relief | |

National Biological Information Infrastructure

The National Biological Information Infrastructure (NBII) is a broad collaborative program to provide increased access to data and information on the nation's biological resources. The NBII links diverse, high-quality biological databases, information products, and analytical tools maintained by NBII partners and other contributors in government agencies...

[learn more...](#)

Choose, a map service from the NBII registry

None (Capabilities document URL provided below)

- NBII Bird Conservation Node Bird Conservation Application Map Service
- NBII Bird Conservation Node Breeding Bird Atlas Map Services
- NAFTA Highway GAP Analysis Layer Server (AR, LA, TX)
- U.S. Flood Risk Zones (WMS)
- USGS National Elevation Dataset (NED) - Shaded Relief
- USGS National Hydrography Dataset (NHD)
- Bureau of Transportation Statistics (BTS) Roads
- USGS National Land Cover Database (NLCD)
- USGS Base Map Data
- USGS Landsat 7 Mosaic
- USGS SRTM Relief
- USGS 133 Urban Areas
- Southwest Information Mapper
- Texas Topo Maps (-108W to -90W)

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<http://mercdev.ornl.gov/mapviewer/>



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1. EPA Newswatch: May is Science Month at EPA Updated!

May is Environmental Science Month at EPA. Although, as EPA Science Advisor Paul Gilman ... Last Modified: 6/2/2004 2:10:00 AM Properties...

2. EPA National News: 1. EPA FINALIZES VOLUNTARY CANCELLATION OF VIRTUALLY ALL RESIDENTIAL USES OF C-2-TREATED WOOD; 2. EPA WORKING TO FIND SOLUTIONS ON FSC CULTIVATE; 3. EPA LAUNCHES 1-MILE-EPAGE-AGED TO PROMOTE PUBLIC PARTICIPATION IN AGING INITIATIVE; 4. SUCO! On March 17, EPA granted the voluntary cancellation and use termination requests affecting virtually all ... Last Modified: 3/7/2004 8:00:00 AM Properties...

3. EPA: About EPA

4. EPA's mission is to protect human health and to safeguard ... Last Modified: 5/23/2004 4:20:00 AM Properties...

5. EPA Newsroom: Whitman, orgullosa de sus logros al preparar para regresar a su hogar en Nueva Jersey, renuncia como administradora de la EPA, el día 27 de junio del 2003 Updated!

6. EPA National News: 1. EPA RECOGNIZES BUILDINGS FOR SUPERIOR ENERGY PERFORMANCE; 2. EPA PUBLISHES REPORT ON HIGH-PERFORMING AND COST-EFFECTIVE HAZARDOUS WASTE TREATMENT TECHNOLOGIES; 3. PUBLIC COMMENT SOUGHT REGARDING HUMAN TESTING DATA; 4. EPA FINALIZES National News Contact Us | Print Version EPA > National News > Press Releases By Date ... Last Modified: 3/7/2004 8:00:00 AM Properties...

7. EPA National News: NEW CORN PEST CONTROL APPROVED BY EPA CAN LEAD TO REDUCED PESTICIDE USE After an intensive, multi-year scientific analysis, EPA has approved the use of a new plant-incorporated protectant designed ... Last Modified: 3/7/2004 7:50:00 AM Properties...

8. EPA Newsroom: EPA Honors Clean Water Partners for the 21st Century Updated!

9. EPA National News: EPA ADOPTS AGGRESSIVE MEASURES ON HERBICIDE ATRAZINE EPA announced today an innovative and aggressive program to protect vulnerable community drinking ... Last Modified: 3/7/2004 7:50:00 AM Properties...

10. EPA External Links: Dieldrin You will be leaving the EPA.gov domain and entering an external link. This link provides ... Last Modified: 5/23/2004 4:20:00 AM Properties...

11. EPA National News: 1. BOOST FOR "E-CYCLING" AT COLLECTION EVENTS HELD NATIONWIDE DURING EARTH WEEK; 2. EPA LEADS INTERNATIONAL PARTNERSHIP ON THE ROLE OF SCIENCE IN SUSTAINABLE DEVELOPMENT; 3. PILOT PROGRAM EXAMINES MODIFICATIONS FOR PESTICIDE HERBICIDE program, launched in January 2003, is a key component of EPA's Resource Conservation Challenge, which asks Americans ... Last Modified: 3/7/2004 8:00:00 AM Properties...

12. EPA: Pesticides - About EPA's Pesticides Program

BIOBOT: MOTOR DE BÚSQUEDA DE NBII Y OTROS RECURSOS BIOLÓGICOS

En este momento, BioBot sólo busca los términos en inglés, pero contenido español se agregará en un futuro próximo.

BioBot

BioBot: Agente Para Búsqueda Biológica

1. Entre los Términos de la Búsqueda

Búsqueda:

2. Escoge los Recursos de la Búsqueda

Búsqueda en NBII:

☒ Recursos de NBII en la red

☐ NBII Banco de Metadatos

Búsqueda por Tema:

☐ anfibios

☐ pájaros

☐ especies invasoras

Búsqueda en Cambridge Scientific Abstracts (CSA):

☐ Literatura publicada

☐ Recursos de la red

BÚSQUE CANCELE



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Efforts in the next 6 months...

- Implementation of Public Portal
- Full Implementation of Web Resources Standards
- Connecting Map Services Registry to Geospatial One Stop
- Development or discovery of web services for use within the Nodes such as Gazetteer, Address Finder, or others
- Development of simple data capture for reporting of events such as “I found a deformed frog in my back yard”. (Simple species reporting toolkit)
- Ongoing peer (working group) review of current and new applications (GIS, Databases, etc).
- Regular semi annual geospatial and information technology workshops (June/Oct)
- Collaboration through my.NBII.gov communities
- Expansion of museum records (+2 million)
- Expanding partnerships for content creation
- Expansion of WDC data holdings



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Potential Collaborative Opportunities

- Continue support related to Ecoinformatics activities
- Interagency Biodiversity & Ecosystems Workshop
- Metadata integration, tools sharing, standards support
- GIS & Mapping activities
- Collaboration with NBII Fisheries & Aquatic Resources Node
- World Data Center opportunities – data distribution, Modeling



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Questions....



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Reference urls...

My.NBII.Gov Portal:

<http://My.NBII.Gov>

To Download the MyNBII Portal Toolbar:

<http://www.athoc.com/wis/activate/default.asp?pid=1056591>

Plumtree & NBII Partnership:

http://www.plumtree.com/Customers/industries/public_sector/nbii.htm

NBII-AtHoc User Case Study:

<http://www.athoc.com/site/pdf/AtHocCaseStudyNBII.pdf>

Federal Computer Week articles:

Power to the Portals:

<http://www.fcw.com/fcw/articles/2002/0325/tec-port-03-25-02.asp>

Build a meeting of the minds online

<http://www.fcw.com/supplements/dwkm/2002/sup-meet-08-05-02.asp>

Community Investment

<http://www.fcw.com/supplements/dwkm/2002/sup-meet2-08-05-02.asp>

Government Computer News:

Geological survey tunes XML tags to keep data on key

<http://www.gcn.com>



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Online Demo Geospatial Applications

NBII Map Services Registry Search FGDC clearinghouse

<http://mercdev.ornl.gov/nbii/>

NBII OGC Multi-server Map Viewer

<http://mercdev.ornl.gov/mapviewer/>

NBII Customized Application

<http://saicmapserver.saic.com/website/wmsviewer>

Other URLs:

Registry XML

<http://mercury.ornl.gov/scripts/wmsregistry.pl>

Single Map Registry Entry XML

http://www-eosdis.ornl.gov/data/bluangel_harvest/NBIIWMS/lgrahamtx/wmsreg/nbii_avianogc.xml



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